Inovatian Mesh Technology

InoMesh Specifications & System Performance Sheet

Requirement Summarization Table

Here below summary of the Technical requirements and specifications:

Items	Values
General Requirements	Description
Seamless mobility/roaming inter AP	Supported
Max hops inside a WMN	Values (4)
Offered throughput (In extreme cases : max hops …)	The bandwidth is halved each hop in InoMesh.
Maximum number of concurrent users / WMN	Concurrent Stations • Up to 100 clients per AP logged on and 30 active user. Simultaneous Voip Clients • Up to 30
Maximum number of associated users /WMN	100
self-organizing, self-balancing and self-maintained network	Supported
AP Requirements	
Dimensions	For UAP-AC-PRO AP 196.7 x 196.7 x 35 mm (7.74 x 7.74 x 1.38")
Weight	For UAP-AC-PRO AP 350 g (12.4 oz)

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Power consumption	9 W
-10 to 70° C (14 to 158° F)	-10 to 70° C (14 to 158° F)
IP code (IEC standard 60529)	IP67
Power solution	PoE but the units come with a power injector so all that is needed to power the units is AC power.
Number of supported SSIDs	4 for APs
802.11 protocol compliance	Supported a/b/g/n/ac/af
Operating frequency band	IEEE 802.11 b/g/n: 2.4 – 2.484 GHz IEEE 802.11a/ac: 5.15 – 5.25 GHz; 5.47 – 5.725 GHz; 5.725 – 5.85 GHz
Supported Radio Mode	Single, Dual or multi-mode
Offered throughput per AP	300Mbps for n products. 1.3Gbps for ac products.
Automatic discovery	Supported
Maximum number of concurrent users / AP	100
Maximum number of associated users / AP	100
Dynamic Channel/Frequency Assignment	Supported
MIMO (at least 2x2)	Supported 2X2 and 3x3 available.
Maximum TX power, minimum TX power and adjustment step	22 dBm for 2.4 Ghz 22 dBm for 5 Ghz
TX power (at the antenna connector)	22dBm
Modulation mode	(BPSK/QPSK/16QAM/64QAM)
Coding mode	MCS0-MCS7/MCS15
Channel bandwidth configuration (20 MHz; 40 MHz;…)	20MHz for the g standard and up to

	40MHz for n and ac standards.
Coverage Radius	300m in open space with unobstructed line of sight.
Antenna	
Antenna position	(3) Dual-Band Antennas, 2.4 GHz: 3 dBi, 5 GHz: 3 dBi
Type of external antenna interface	SMA male for the UniFi/reversed N female for the Bullet HP
Antenna Type	Omni/Directionnal
Backhaul & Transmission Requirements	
Both AP layer-2 and layer-3 connection to AC	Supported
IEEE 802.1Q VLAN tagging	Supported
IEEE 802.1ad Q-in-Q	Supported
IEEE 802.1p and L2 QoS.	Supported
DiffServ and L3 QoS.	Supported
Traffic Policing and shaping	Supported
IPv6 for End User	Supported
Security	
Security authentication standard	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
MAC address–based access control	Supported
Access Controller Requirements	
Virtualization option	Supported
Capacity : Maximum number of AP/Maximum throughput/ maximum of active users …	Unlimited APs
O&M/OSS Requirements	
Maximum simultaneous user's sessions	Unlimited
AP remote Configuration & software upgrade	Supported

FM (Alarms)	Supported
PM (KPIs)	Supported
External FM (Temip)	Supported

Specifications of the AP (airMax Bullet Titanium)

Bullet Titanium	
Processor	Atheros MIPS 24KC, 400 MHz
Memory	32 MB SDRAM, 8 MB Flash
Networking Interface	(1) 10/100 Ethernet Port
Dimensions	190 x 46 mm
Weight	196 g
Enclosure	Powder Coated Aluminum
Antenna Connector	N-Type Connector
Operating Frequency BM2-Ti BM5-Ti	2402 - 2462 MHz Worldwide: 5170 - 5875 MHz USA: 5725 - 5850 MHz
Max. Power Consumption BM2-Ti BM5-Ti	7 W 6 W
Output Power BM2-Ti BM5-Ti	28 dBm 25 dBm
Power Supply	24V, 1A PoE Adapter (Included)
Power Method	Passive PoE (Pairs 4, 5+; 7,8 Return)
Certifications	CE, FCC, IC
Operating Temperature	-40 to 80° C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4